

# Patent [19]

[11] Patent Number: 08182749

[45] Date of Patent: Jul. 16, 1996

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## [54] DEODORIZING APPARATUS

[21] Appl. No.: 06338064 JP06338064 JP

[22] Filed: Dec. 27, 1994

[51] Int. Cl.<sup>6</sup> A61L00920; A61L00901

## [57] ABSTRACT

**PURPOSE:** To perform efficiently deodorizing with a small- sized and low consumption electric power and to prevent surely excited light from leaking to the outside by covering the surface of an exciting light source with a photocatalyst when deodorizing is performed by using the photocatalyst excited by a light from the exciting light source.

**CONSTITUTION:** In a deodorizing apparatus, a filter 3 is fitted on an intake vent 2a of an air duct 2 passing through a casing 1 and a fan 4 is installed in the neighborhood of an exhaust vent 2b and e.g. three pieces of deodorizing units 5 which approximately intersect the straight pipe-like air flow direction at right angles are placed in the intermediate part. In addition, the light emitting face except both end electrodes of a cylindrical ultraviolet lamp is covered with a photocatalyst. Then, when electric source is supplied to the ultraviolet lamp of each deodorizing unit and the fan is worked under a condition where the photocatalyst is actuated, contaminated air flows into the air duct 2 from the outside through the intake vent 2a and the filter 3 and it is brought into contact with the photocatalyst. At this instance, odor components in the air are absorbed with the excited photocatalyst and the air is exhausted from the exhaust vent 2b.

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